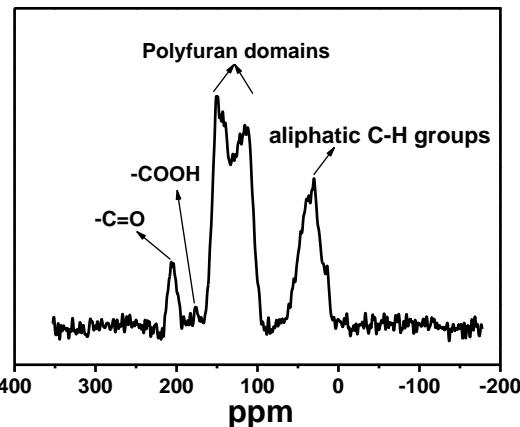
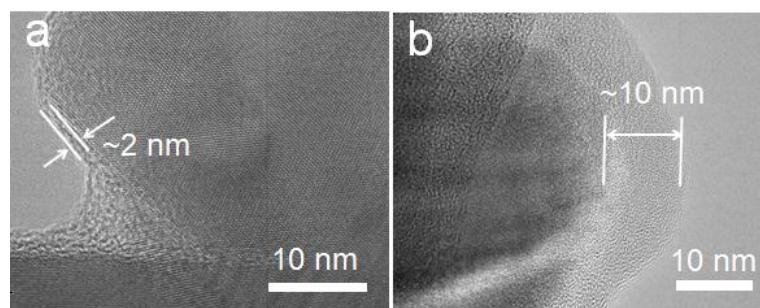


# Supplementary Materials: Hydrothermal Carbonation Carbon-Coated CdS Nanocomposite with Enhanced Photocatalytic Activity and Stability

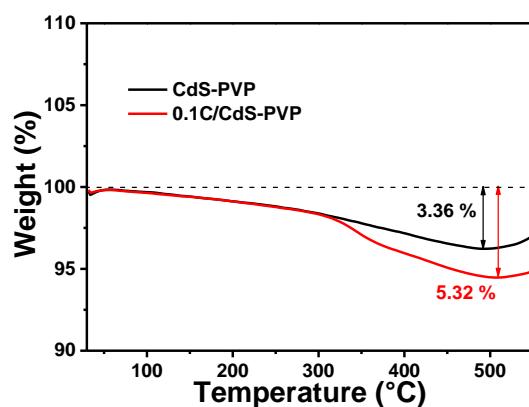
Yuanliang Ma, Zhongkun Zhao, Zhurui Shen, Qiang Cai, Huiming Ji and Leichao Meng



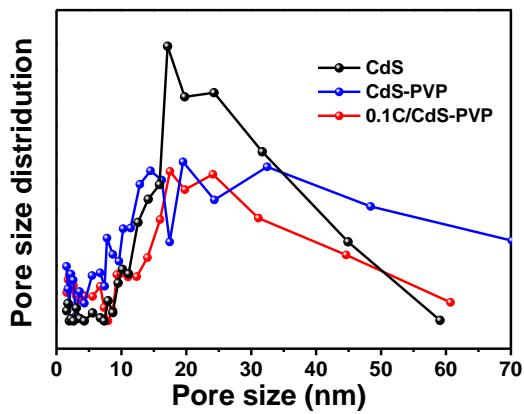
**Figure S1.**  $^{13}\text{C}$  Solid-state NMR of the as-prepared HTCC, the chemicals shift peaks of polyfuran domains are highlighted here.



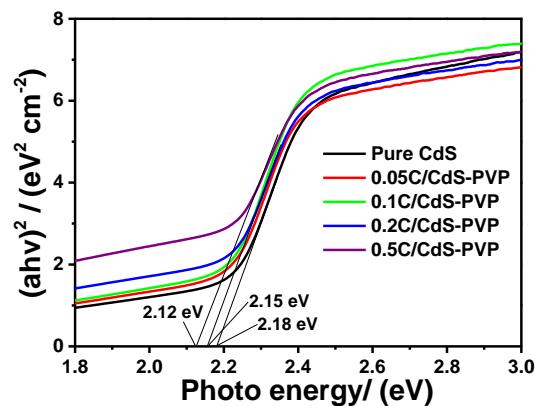
**Figure S2.** HRTEM images of (a) 0.05C/CdS-PVP and (b) 0.5C/CdS-PVP samples.



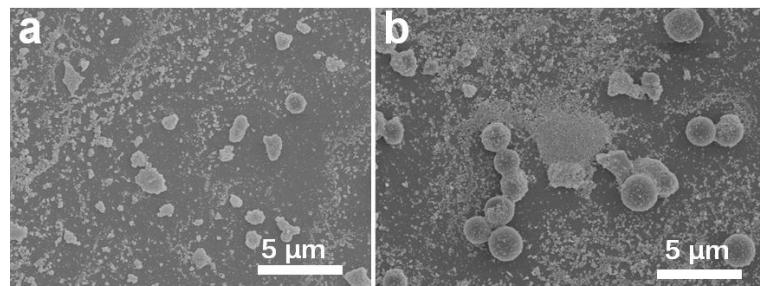
**Figure S3.** TGA curves of CdS-PVP and 0.1C/CdS-PVP samples.



**Figure S4.** The pore size distribution curves of the pure CdS, CdS-PVP and 0.1C/CdS-PVP samples.



**Figure S5.** The band gaps calculated from Kubelka-Munk plots of the as-prepared samples.



**Figure S6.** SEM images of (a) 0.2C/CdS-PVP and (b) 0.5C/CdS-PVP samples.